

Skye Schell

April 20, 2011

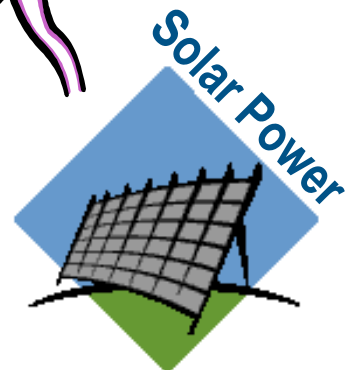
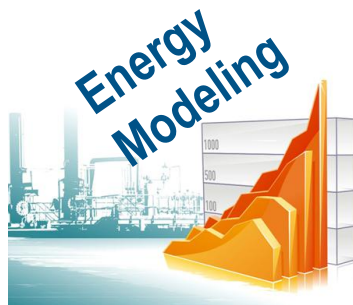
Portland, OR

- FEMP Services
- FEMP Staff Updates
- Requirements Summary & UESC Trends and Highlights
- 2011 Federal Energy and Water Management Awards
- EISA Section 432 Compliance Tracking System Update
- GovEnergy 2011
- Mark Your Calendar: Fall 2011 FUPWG

- **Project Assistance:** Information on current FEMP projects and calls for technical assistance.
- **Training:** Information on FEMP-provided training workshops, webinars, and other activities.
- **Outreach:** Awards, energy awareness campaigns, and other activities to cultivate behavioral change towards renewable energy, energy efficiency, and water efficiency.

MISSION : *FEMP facilitates the Federal Government's implementation of sound, cost-effective energy management & investment practices to enhance the nation's energy security & environmental stewardship*

TA provides training, assessments, retro- commissioning & more for a wide variety of issues and technologies...



Landfill Gas



Biomass Energy



Heat
Recovery



Fleet
Efficiency

To obtain FEMP support for energy efficiency and renewable energy projects, contact the FEMP customer service representative for your agency.

FEMP Customer Service Representatives:

<http://www1.eere.energy.gov/femp/about/contacts.html>

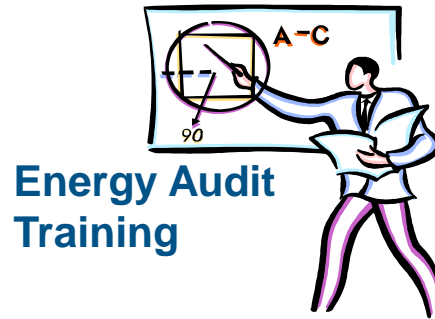
EERE Information Center:

<https://www1.eere.energy.gov/informationcenter/>

877-337-3463

Training Topics:

- GovEnergy Workshop & Trade Show
- Alternative financing: ESPC, UESC, PPA, and EUL
- Energy efficiency
- Greenhouse gases
- Renewable energy
- Water
- Commissioning
- Operations and Maintenance (O&M)



Advanced Metering



Training Formats:

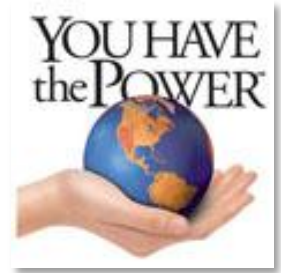
- Live
- On demand



FEMP Training Calendar:

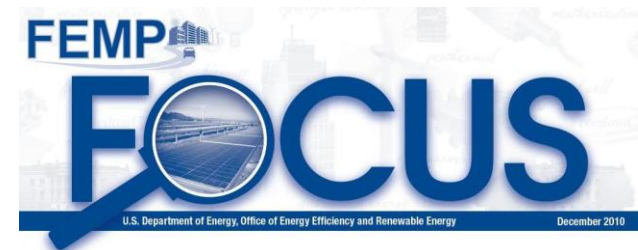
<http://apps1.eere.energy.gov/femp/training/calendar.cfm>

FEMP outreach and awareness campaigns cover energy efficiency, renewable energy, and water efficiency through a wide variety of activities and resources.



FEMP outreach activities and resources include:

- Award Programs
- Earth Day
- Energy Awareness Month
- You Have the Power Campaigns
- FEMP Focus



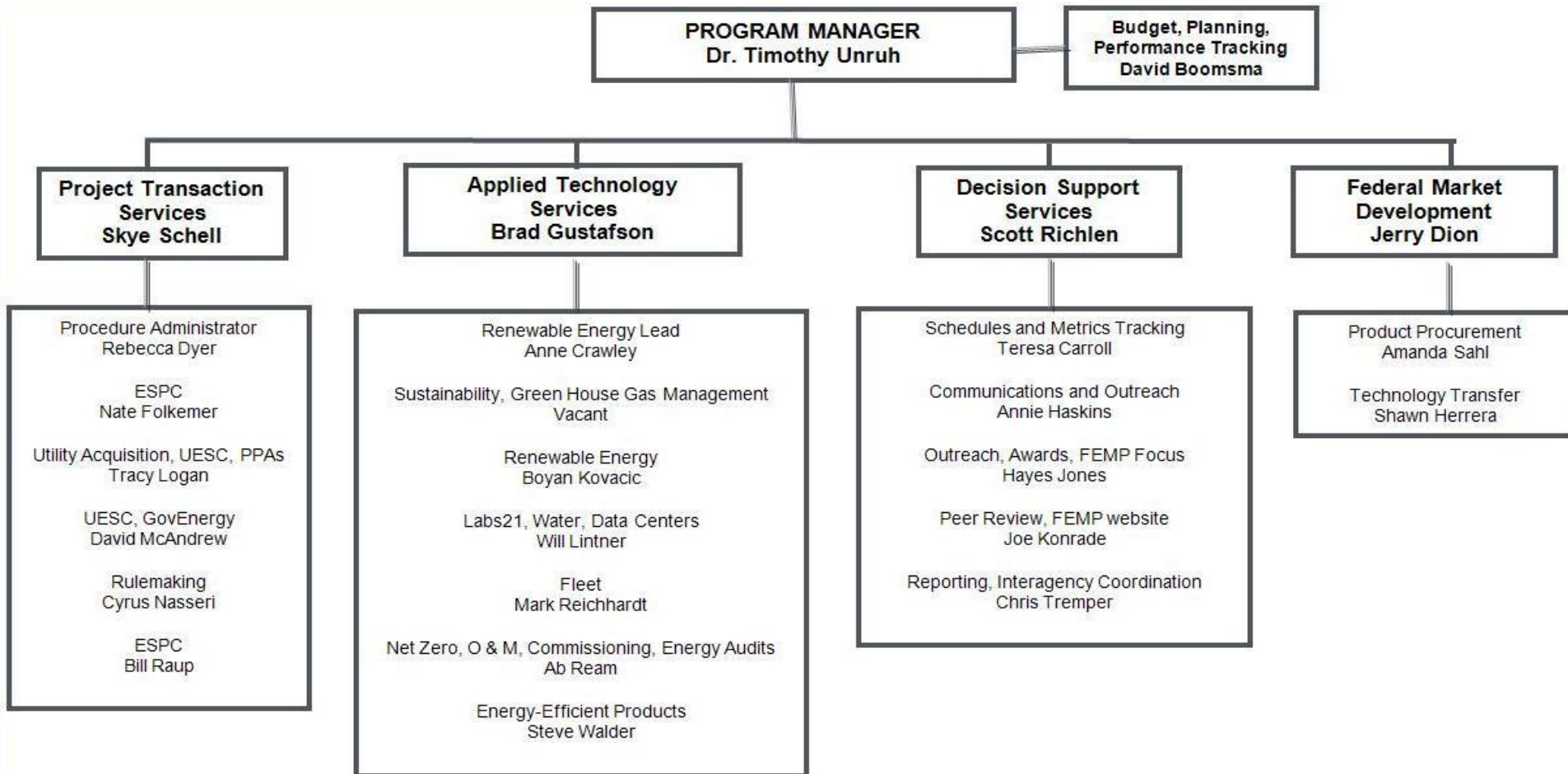
Criteria Overview:

- Nominations under the Project category should be submitted for projects that were completed (or realized first savings) in FY 2010.
- Federal personnel or contractor operators of Federal organizations, facilities, fleets, or mobility vehicles (ships or aircraft) may be nominated for any award category.
- An individual or team who won a Federal Energy and Water Management award in 2010 is not eligible to win an award in 2011 for the same achievement at the same location.

Nominations are due by May 13, 2011.

- To submit nominations, visit: <http://www.fempcentral.com/awards>

Staff Updates



- Dr. Timothy Unruh is the new FEMP Program Manager
- Jesse Feinberg (Energetics) departed over the summer to attend grad school at Columbia University; Sarah Mabbitt will be playing key roles including leading UESC data collection efforts
- Leslie Nicholls (Energetics) continues to serve as the FUPWG & Partnership Meeting Coordinator

Requirements Summary

GHG Inventory and Reduction

- Establish baseline and goals (EO13514)
- Report to EPA if over 25,000 mTCO₂ (EPA)
- Pursue opportunities with vendors and contractors to reduce GHG emissions. (EO13514)

Energy Efficiency

- 30% energy intensity reduction by 2015 from 2003 (EISA 2007)
- Conduct energy audits, benchmark buildings, report energy conservation measures (EISA 2007 Sec 432)
- In agency acquisition of goods and services, use of sustainable environmental practices, including energy-efficient products, is encouraged. (EO13423)

Renewable Energy

- 7.5% of federal agency electricity must come from renewable sources by 2013 (EPACT Sec 2003)
- At least half of renewable energy required by statute must come from new sources (EO13423)
- Implement on-site renewable generation to the extent feasible (EO13423)

Metering

- By October 1, 2012, in accordance with guidelines established by the Secretary...all Federal buildings shall... be metered [for electricity]. (EPACT Sec 103)
- Not later than October 1, 2016, each agency shall provide for equivalent metering of natural gas and steam (EISA Sec 434)

Requirements Summary (cont.)

Sustainable Buildings

- 15% of existing buildings to meet Guiding Principles (EO13423) and reach 100% in the future (EO13514)
- 30% of hot water in new buildings from solar water heaters (EISA Sec 523)
- New buildings must be 30% better than ASHRAE (EPACT Sec 109)
- No Federal agency shall enter into a contract to lease space in a building that has not earned the Energy Star label in the most recent year. (EISA Sec 435)

Water

- 16% water intensity reduction by 2015 from a 2007 baseline (EO13423), extended to 26% by 2020 (EO13514)
- 20% industrial, landscaping and agricultural water consumption reduction by 2020 from a 2010 baseline (EO13514)
- Implement and achieve objectives of federal Stormwater Guidance (EO13514)

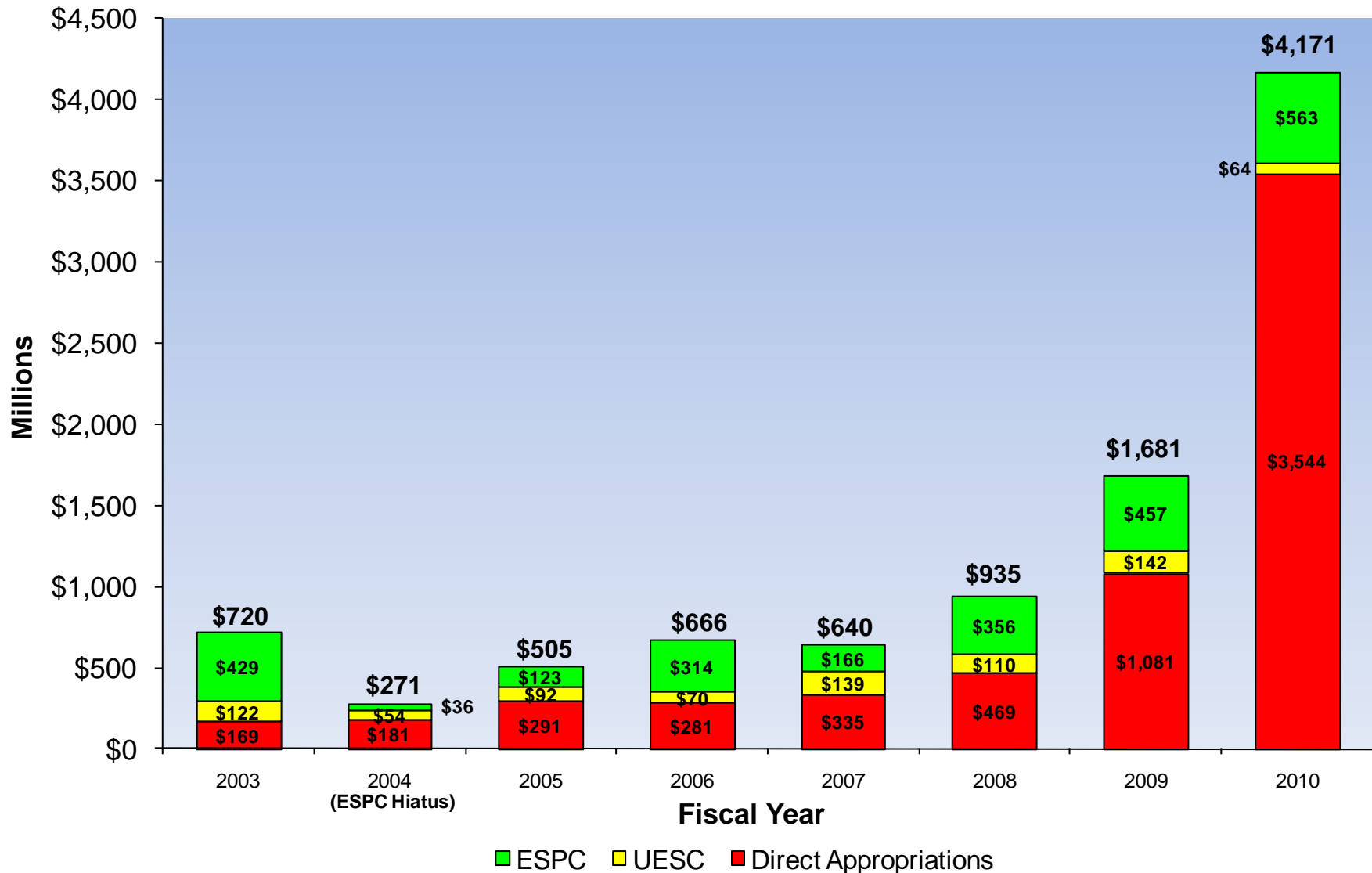
Others

- Minimize consumption of energy, water, and materials through cost-effective, innovative strategies, such as highly reflective and vegetated roofs. (EO13514)
- Develop and implement Agency Strategic Sustainability Performance Plan, integrated with mission, budget, existing planning procedures...Agencies submit updates on progress and performance at least annually if not more often (EO13514).

Agency-Specific Goals

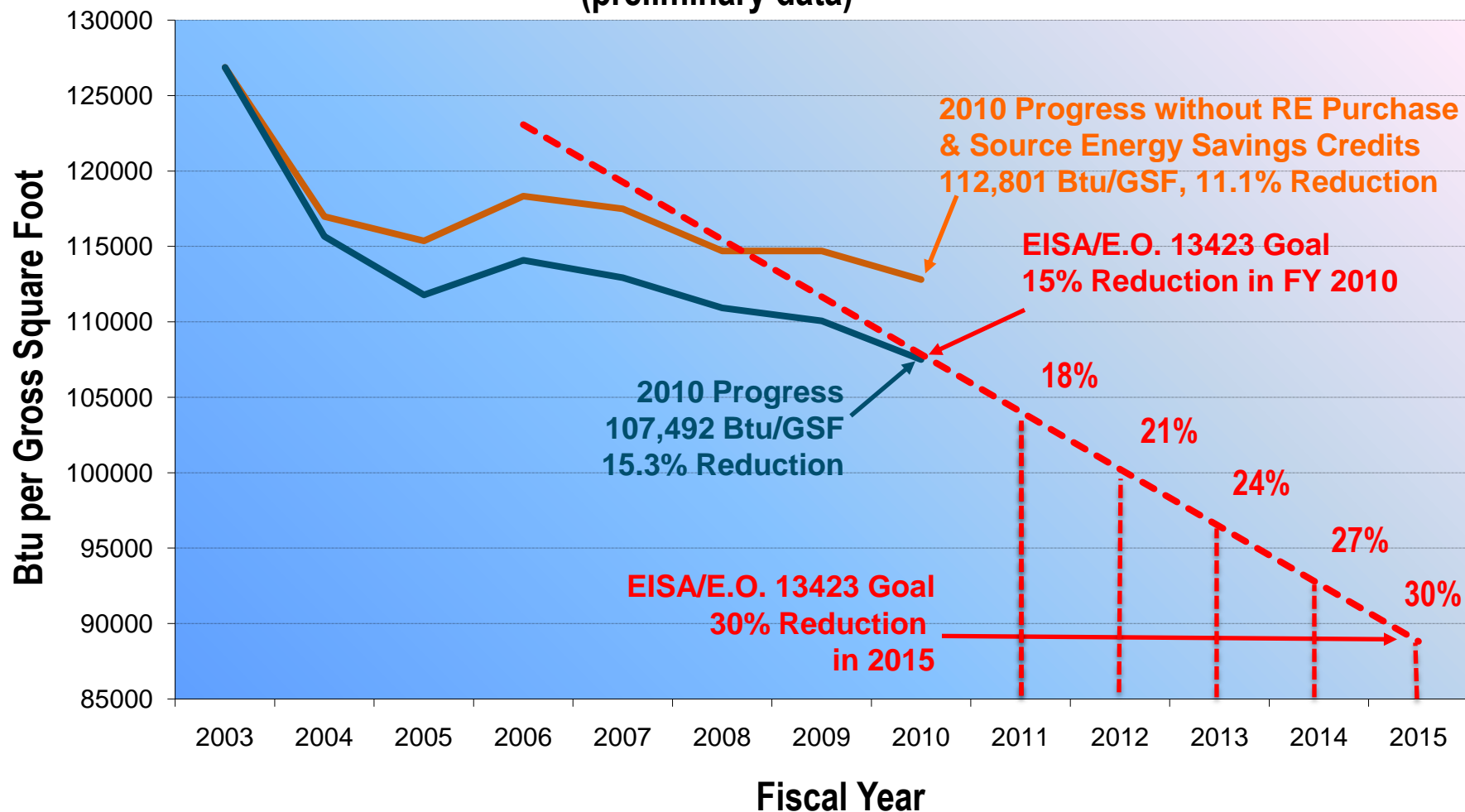
- Use of specific technologies to increase tech-transfer
- Cool roofs/Green roofs
- Attaining sustainable building certifications other than LEED
- Increase the number of buildings audited, commissioned or retro-commissioned

Privately Financed Projects are Key to Meeting Goals

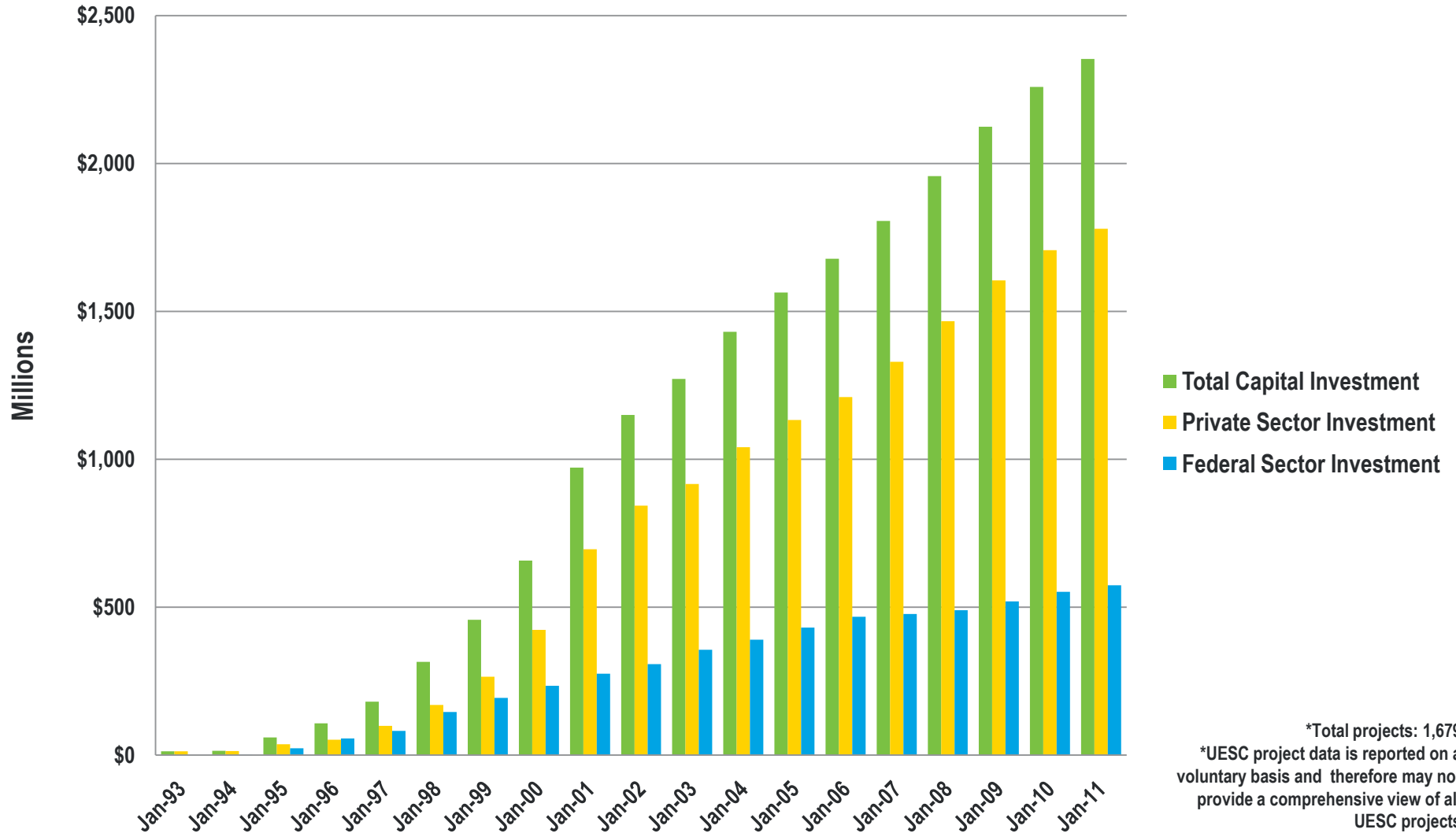


Federal Facilities: Progress Toward Energy Reduction Goal

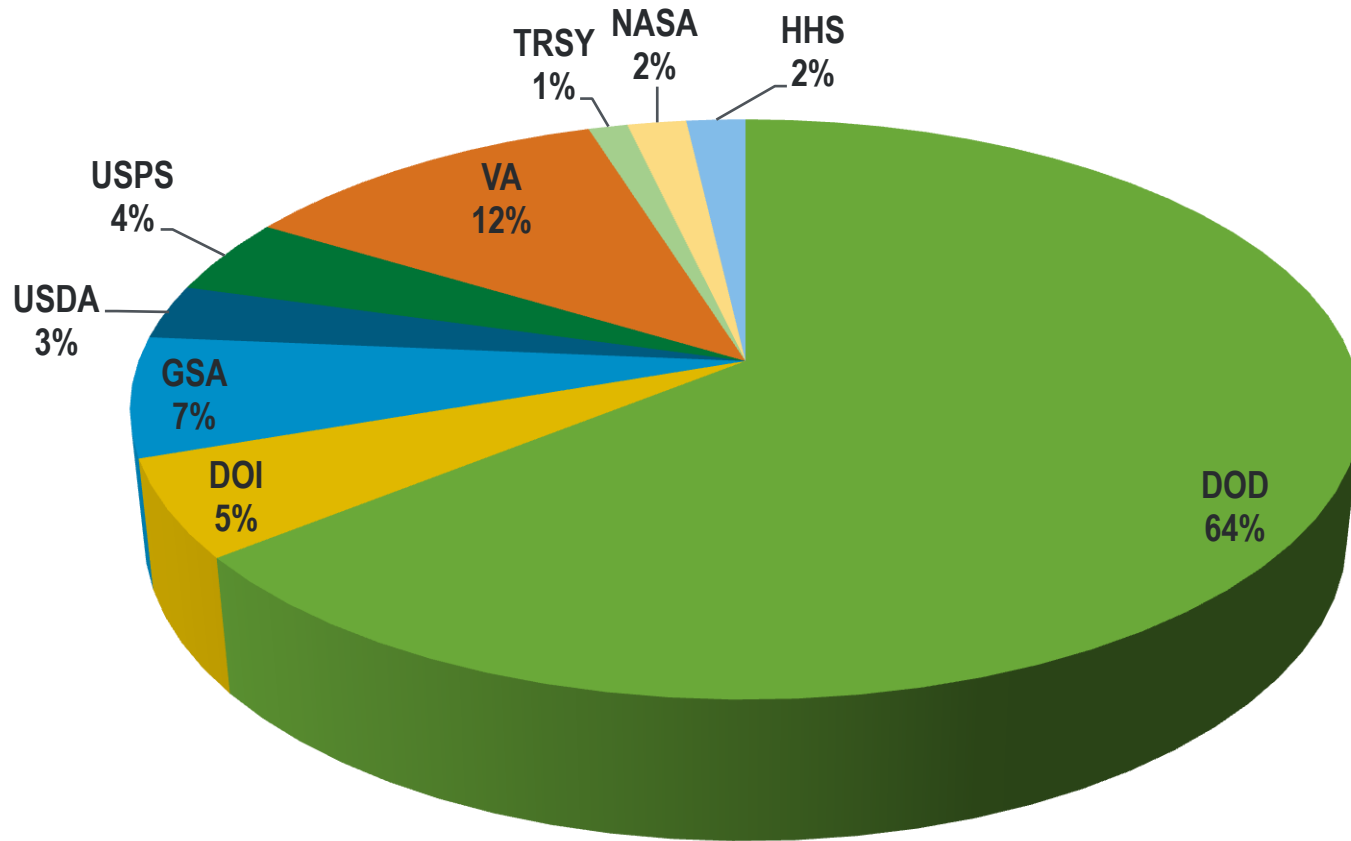
Government Building Energy Intensity FY 2003 - FY 2010 (preliminary data)



UESC Investment Over Time



UESC Projects by Agency: FY2009-Present



*Based on 168 total projects for FY2009-present

UESC Data Collection Template:

Agency	Facility	Building(s)	Utility	Contract Type	Contract Term	Task Order/Delivery Order	Award Date	Completion Date	Energy Conservation Measures Implemented In Project (See Key)	Project Description
Project's Capital Cost (\$)	Percent of Total Cost 3rd Party Financed	Rebate Amount (\$)	Rebate Source	Estimated Annual Cost Savings (\$)	Estimated Total Energy Savings	Estimated Annual kWh Saved	Estimated Annual KW Saved	Estimated Annual Natural Gas savings (please specify cubic feet, therms or MMBtu)	Estimated Annual water savings (in kgal)	

UESC data is reported on a voluntary basis.

Please submit UESC project data to:

Sarah Mabbitt, smabbitt@energetics.com

- FEMP is responsible for tracking Federal agency progress and issuing guidance toward meeting Section 432 of the Energy Independence and Security Act (EISA) of 2007 for Federal facility energy and water management and benchmarking.
- The EISA Section 432 Compliance Tracking System (CTS) tracks agency performance of energy and water evaluations, project implementation and follow-up measures, and annual building benchmarking requirements.

EISA 432 Compliance Tracking System (CTS): 2011 Schedule

- **March 31, 2011:** Agencies must input facility characteristic data into the CTS. (Characteristic data includes FY10 energy use and facility gross square footage).
- **June 30, 2011:** Facility evaluations must be complete.
(Evaluations must include potential ECMs, potential investments and potential savings).
- **September 30, 2011:** Agencies must report all implemented projects including the awarded ECMS, total investment, savings and M&V.
- **November 30, 2011:** Building benchmarking data is uploaded from Energy Star Portfolio Manager.

Compliance Tracking System (CTS):

- CTS Version 2.3 was released on April 7, 2011
- The facility evaluations module was re-tooled to allow for uploading and downloading capabilities.
- A limited public website was released that allows the public to view reported data on a government-wide basis:
www.eere.energy.gov/femp/regulations/facility_cts.html

Next Steps:

- FEMP is focused on guiding agencies to the June 30 facility evaluation reporting deadline
- FEMP is finalizing additional guidance for agencies reporting propriety facility information

Chris Tremper

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chris.tremper@ee.doe.gov

EISA 432 Working Group webinars:

<http://apps1.eere.energy.gov/femp/training/>

- 2nd and 4th Thursdays, 10:00 AM – 12:00 NOON
- Next webinar: Thursday, April 28

EISA Section 432 Guidance:

<http://www1.eere.energy.gov/femp/regulations/guidance.html#cf>



GovEnergy

www.govenergy.gov

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and Trade Show for Federal Agencies

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August 7–10, 2011



Technical Program:

- 15 tracks – over 130 individual sessions
- New tracks:
 - GovEnergy Roundtable
 - Complying with Federal Directives
 - Energy 501
 - **Utility Infrastructure**
- Special Sessions:
 - Energy Lawyers & Contracting Officers Working Group
 - How to do Business with the Federal Government

Trade Show:

- Expanded exhibit hall (84% sold out)
- GovEnergy Technology Theater: will feature live demonstrations
- Electric vehicles
- Visit the GovEnergy website to reserve a booth

Additional training opportunities include:

- Pre/post workshops and meetings
- ESPC Users Group Meeting
- Expanded optional technical tours

Visit **www.GovEnergy.gov** to register!

FUPWG Fall 2011

Hosted by:



October 25-26, 2011

**Holiday Inn Philadelphia - Historic District
Philadelphia, PA**

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www.FEMP.energy.gov